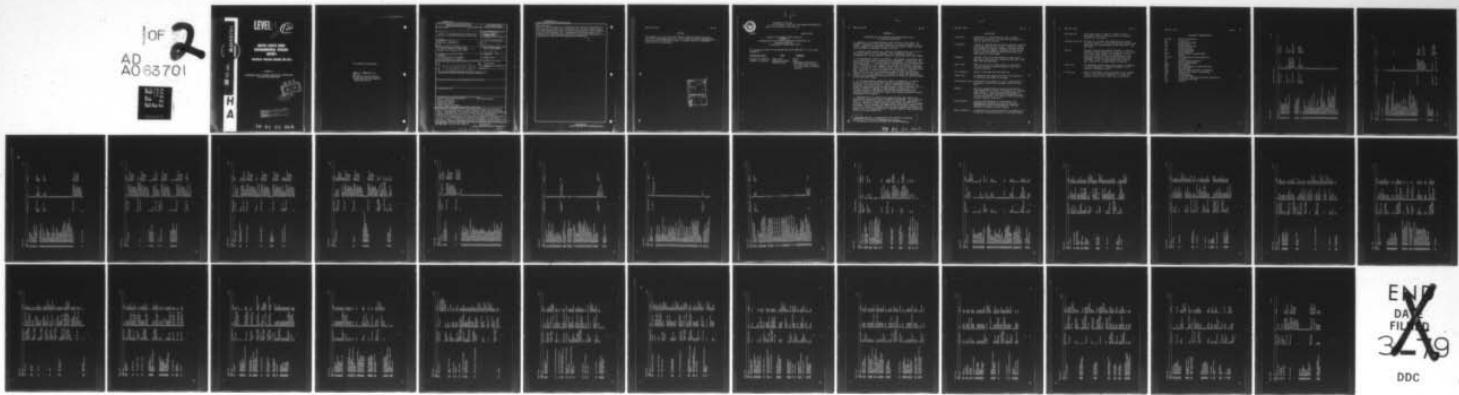


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MEDICAL SURVEILLANCE GUIDE (GUIDE FOR JOB-RELATED EXAMINATIONS)--ETC(U)
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UNITED STATES ARMY
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AGENCY

ABERDEEN PROVING GROUND, MD 21010

APPENDIX G

RECOMMENDATIONS FOR PERIODIC JOB-RELATED EXAMINATIONS
FOR SELECTED OCCUPATIONS



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This appendix recommends periodic job-related examinations for Department of Army civilian employees based on General Schedule or Wage Grade employee job titles. Recommendations are further based on the usual activities of individuals employed under the various job titles. To utilize the recommendations efficiently and appropriately, the actual job the individual holding a particular job title is performing must be carefully considered. In the event of unusual or special circumstances, the activities embodied in certain job titles may change. Similarly, the simple fact that an individual holds a certain		

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Block 20 (cont.)

job title does not imply that recommendations are necessarily appropriate for that particular individual in his particular job. In these cases, periodic job-related examinations should be altered to accomodate the actual characteristics of the individual's job. Recommendations are further based on the assumption that other aspects, besides periodic job-related examinations, of a comprehensive occupational health program are implemented.

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Med Surv Guide

Nov 78

PREFACE

This appendix is a revision to this Agency's Medical Surveillance Guide (Guide for Job-Related Examinations for Selected Occupations, January 1975). Other additions to this guide as well as further revisions of existing portions will be forthcoming.

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January 1979

Change to the November 1978 Printing of
APPENDIX G
Recommendations for Periodic Job-Related Examinations for
Selected Occupations
(to the Medical Surveillance Guide)

The examination format for the determining factor ASBESTOS is, in all cases, changed to:

<u>Determining Factor</u>	<u>Exam</u>	<u>Frequency</u>
Asbestos (if exposure exceeds 0.1 fiber/cc)	Chest x-ray	Annual
	Pulmonary functions	Annual
	Sputum cytology	Preplacement and annual if 45 years of age or older or 10 or more years of asbestos exposure.

APPENDIX G

**Recommendations for Periodic Job-Related Examinations
for Selected Occupations***

1. Appendix G is oriented differently than the rest of this guide. As opposed to focusing on individual exposures, this section focuses on job titles. Chosen for inclusion were job titles for General Schedule and Wage Grade employees at Department of Army activities.
2. Included in this section are a glossary of abbreviations and a list of definitions specific to this appendix. Also included are specific recommendations listed by General Schedule or Wage Grade series code number.^t
3. The presentation format is as follows: Pay Schedule, Occupational Code, Title, Determining Factor, Examination, and Frequency. In most cases, the Determining Factor is a specific exposure although other variables also enter into consideration. It is imperative to note that the factors listed are usual. This does not mean, however, that a factor is invariably associated with the occupation, nor, on the other hand, are claims of all-inclusiveness made. Naturally, if one of the factors is not relevant at a specific installation, the part of the examination geared to that exposure may be deleted. Also, if the operation is different or unique, the appropriate examinations (obtained from preceding sections of the Guide) should be added to the examination format.
4. In all cases where an examination format is recommended, an interim history should be obtained at the time the recommended procedure is performed. The interim history, a short history which focuses upon the symptom complexes which might be expected from a specific exposure, e.g., a history of asthmatic symptoms in those exposed to isocyanates, is an invaluable adjunct to any medical surveillance program and should be performed though not specifically listed in the various examination formats recommended in this section.
5. Recommendations are based on the assumption that other aspects of a comprehensive occupational health program are implemented. This especially refers to the hearing conservation, vision screening, and immunization programs. Where one of these procedures would almost certainly be required, audiograms, vision screening, and immunizations are depicted; however, this by no means includes all possible noise or visual exposures and assumes, for example, that all persons subjected to repeated trauma are immunized against tetanus per current guidelines.

* Supersedes Appendix G, Recommendations for Periodic Job-Related Examinations for Selected Occupations, April 1975.

^t As designated by the United States Civil Service Commission.

DEFINITIONS

Age Related	Quadrennial for those 39 years of age or younger, biennial for those 40 to 49 years old, and annual for those 50 years old and over.
As Required	A factor or condition may exist which requires a specific job-related examination or action. Potential diversity and uniqueness of operation, however, preclude specific guidance from this Agency. Determination must be made locally and from appropriate guidance extracted from other sections of this guide.
Audiogram	Includes a record of the threshold of audibility of each ear for pure tone test frequencies 500, 1000, 2000, 3000, 4000 and 6000 Hertz.
Chest X-ray	Refers to 14- by 17-in films taken at a distance of 6 ft and including a posterior-anterior and a left lateral projection.
Cholinesterase	Refers to red blood cell cholinesterase.
Dental Exam	An examination the purpose of which is the detection of pitting of the enamel of the teeth.
Dermatological Exam	An examination the purpose of which is the detection of dermatoses or potentially contagious lesions of the skin.
Emphasis	Particular attention must be placed on the specific organ system which is cited. For example, G.I. emphasis might include: a medical history which focuses on alcoholic intake, past exposures to hepatotoxins, and past hospitalizations; and a physical examination which stresses abdominal organ size.
Eye Evaluation	Includes a determination of visual acuity. An ophthalmoscopic examination of the eye should be performed by a qualified professional if abnormal findings are present on acuity testing.
Nasal Examination	An examination the purpose of which is the detection of ulcerative or perforating lesions of the nasal septum.

None Required	In the usual case, no factor or condition exists which would require a specific periodic job-related examination or procedure.
Pulmonary Functions	Includes, at a minimum, the determination of Forced Expiratory Volume in 1 second, Forced Vital Capacity, and comparison with expected norms for the individual's age and height.
Routine	Includes a history (both medical and work), a physical examination which includes vital signs and an evaluation of all major organ systems, an audiogram, a vision screening, a chest x-ray (to be accomplished no more frequently than every 4 years except when otherwise indicated), an EKG in those greater than 35 years of age, a CBC and UA, and other tests as indicated.
Stress Test	The submaximal determination of work capacity employing a bicycle ergometer or treadmill followed by an EKG. Similar to the Master's Test.
TB Testing	Refers to intradermal testing by either of two methods (Tine or PPD) unless the individual is a known skin reactor, in which case a chest x-ray is indicated.

GLOSSARY OF ABBREVIATIONS

ALK P04	Alkaline Phosphatase
AR	As Required
BUN	Blood Urea Nitrogen
CV	Cardiovascular
CBC	Complete Blood Count
CO	Carbon Monoxide
EKG	Electrocardiogram
GI	Gastrointestinal
GGTP	Gamma Glutamyl Transpeptidase
Hx	History
IAW AR	In accordance with Army regulation
IR	Infrared
IV	Intense Visible Radiation
LDH	Lactic Dehydrogenase
Misc.	Miscellaneous
MOCA	4,4'-Methylene bis (2-chloroaniline)
NR	None Required
SGOT	Serum Glutamic Oxalacetic Transaminase
SGPT	Serum Glutamic Pyruvic Transaminase
TB	Tuberculosis
TNT	Trinitrotoluene
UA	Urinalysis, including microscopic examination
UV	Ultraviolet Radiation
Var.	Various

GENERAL SCHEDULE EMPLOYEES

GS Series	Title	Determining Factor	Exam	Frequency
007	Correctional Officer	physical stress	routine	age-related
018	Safety Management		AR	
019	Safety Technician		AR	
020	Community Planner		NR	
023	Outdoor Recreation Planning		NR	
026	Park Aid/Technician	physical stress	routine	age-related
030	Sports Specialist	formalin	AR	annual
050	Funeral Director/Mortuary Officer	TB	pulmonary functions dermatological exam TAW AR 40-26	[annual]
062	Clothing Designer	infectious disease	tetanus and diphtheria immunization	basic series then every 10 yrs
072	Fingerprint Clerk/Examiner		NR	
080	Security Administration		NR	
081	Fire Protector and Prevention	physical stress, CO smoke	routine	age-related
083	Police	physical stress noise	routine audiogram	age-related annual
085	Guard	do	do	do
099	General Student Trainee		AR	
101	Social Science		NR	
110	Economist		NR	
130	Foreign Affairs		NR	
131	International Relations		NR	
132	Intelligence		NR	
142	Manpower Development Specialist		NR	
150	Geographer		NR	
160	Equal Opportunity Specialist/Officer		NR	
170	Historian		NR	
180	Psychologist		NR	
181	Psychology Aid/Technician		NR	
184	Sociologist		NR	
185	Social Worker		NR	
186	Social Services Aid/Assistant		NR	
187	Social Work Associate/Social Service Representative		NR	
188	Recreation Specialist		AR	
189	Recreation Aid/Assistant		AR	
190	Anthropologist		NR	
193	Archeologist		NR	
199	Social Science Student Trainee		NR	
200	Personnel Management/Industrial Relations		NR	
203	Personnel Clerk/Assistant		NR	
204	Military Personnel Clerk/Technician		NR	
205	Military Personnel Management		NR	
246	Contractor Industrial Relations		NR	
300	General Administrative Clerical, Office Services		NR	
301	Clerk		NR	
302	Messenger		NR	

GS Series	Title	Determining Factor	Exam	Frequency
304	Information/Receptionist		NR	
305	Mail/File Clerk		NR	
309	Correspondence Clerk		NR	
312	Clerk Stenographer/Shorthand Reporter		NR	
316	Clerk-Dictating Machine Transcriber		NR	
318	Secretary		NR	
322	Clerk-Typist		NR	
324	Cold Type Composing Machine Operator		NR	
330	Digital Computer Systems Administrative Services	noise	audiogram	
332	Computer Operations		NR	
334	Computer Specialist		NR	
335	Computer Aid/Technician		NR	
341	Administrative Officer		NR	
342	Office Service Manager		NR	
343	Management Analyst		NR	
344	Management Clerk/Assistant		NR	
345	Program Analyst		NR	
346	Logistics Management Specialist		NR	
351	Printing Clerk		NR	
355	Calculating Machine Operator		NR	
356	Data Transcriber		NR	
357	Coding Clerk		NR	
359	Electric Accounting Machine Operator		NR	
362	Electric Accounting Machine Project Planning		NR	
382	Telephone Operating		NR	
391	Communications Management Specialist		NR	
392	Communications Control Technician		NR	
393	Communications Specialist		NR	
401	General Biological Science	infectious disease	influenza immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series
403	Microbiologist		tetanus and diphtheria immunization TAM AR 40-26	basic series then every 10 yrs
404	Biology Aid/Technician		AR	
405	Pharmacologist		AR	
410	Zoologist		AR	
413	Physiologist	organophosphates	AR	
414	Entomologist		AR	
430	Botanist	organic solvents	SGOT, SGPT, ALK PO ₄ , CBC	AR

Series	Title	Determining Factor	Exam	Frequency
434	Plant Pathologist	AR	AR	
435	Plant Physiologist	AR	AR	
437	Horticulturist	AR	AR	
440	Geneticist	NR	NR	
454	Range Conservationist/Scientist	NR	routine	age-related annual
455	Range Technician/Aid	physical stress, CO	pulmonary functions	annual
456	Forest and Range Fire Control	smoke noise	audiogram	annual
457	Soil Conservationist	NR	NR	
458	Soil Conservation Aid/Technician	NR	NR	
460	Forester	NR	NR	
462	Forestry Aid/Technician	NR	NR	
470	Soil Scientist	NR	NR	
471	Agronomy	NR	NR	
475	Agricultural Management	NR	NR	
481	Fishery Biologist	AR	AR	
486	Wildlife Biologist	AR	AR	
487	Husbandry	AR	AR	
501	Accounting Clerk	NR	NR	
504	Budget and Accounting Officer	NR	NR	
505	Financial Manager	NR	NR	
510	Accounting	NR	NR	
520	Accounts Maintenance Clerk	NR	NR	
525	Accounting Technician	NR	NR	
530	Cash Accounting	NR	NR	
540	Voucher Examining	NR	NR	
541	Fiscal Accounting	NR	NR	
544	Payroll Clerk/Technician	NR	NR	
545	Military Payroll Clerk/Technician	NR	NR	
547	Benefit Payment Roll Clerk/Technician	NR	NR	
560	Budget Analyst/Officer	NR	NR	
570	Financial Institution Examining	NR	NR	
590	Time and Leave Clerk/Technician	NR	NR	
591	Military Time and Leave Clerk/Technician	NR	NR	
599	Student Trainee (Accounting)	NR	NR	
601	General Health Services	AR	influenza immunization tetanus and diphtheria	annual
602	Medical Officer	do	Rubella immunization (all susceptible individuals except pregnant females) IM AR 40-26	basic series then every 10 yrs basic series replacement
603	Physician's Assistant	TB	do	do

GS Series	Title	Determining Factor	Exam	Frequency
605	Nurse Anesthetist	infectious disease	influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series then every 10 yrs basic series preplacement
610	Nurse	infectious disease	influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series then every 10 yrs basic series preplacement
615	Public Health Nurse Nursing Assistant Medical Aid (Sterile Supplies) Autopsy Assistant	TB waste anesthetic gases	TB do do do	do do do
621			do pulmonary functions	annual
622			dermatological exam	basic series
625			tetanus and diphtheria immunization	then every 10 yrs
630	Dietitian	potential hazard to others	TB AR 40-5	basic series then every 10 yrs basic series preplacement
631	Occupational Therapist	infectious disease	influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series then every 10 yrs basic series preplacement
634	Physical Therapy Aid	TB AR 40-26	do	do
635	Corrective Therapist	do	do	do
636	Rehabilitation Therapy Assistant	do	do	do
637	Manual Arts Therapist	do	do	do
639	Educational Therapist	do	do	do
642	Nuclear Medicine Aid/Technician	infectious disease	influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series then every 10 yrs basic series preplacement
	TB var. radionuclides	TB AR 40-26	bioassays	as appropriate
	X radiation	personal monitoring device	monthly	(7-17, 11-8)

GS Series	Title	Determining Factor	Exam	Frequency
644	Medical Technologist	misc. chemicals	SGOT, SGPT, ALK PO ₄ , LDH, CBC, UA, Creatinine, BUN, AR	annual
645	Medical Laboratory Aid/Technician	do formalin	pulmonary functions dermatological exam	do
646	Pathology Technician	infectious disease	tetanus and diphtheria immunization	[annual] basic series then every 10 yrs
647	Medical Radiology Technology	TB infectious disease	TB AR 40-26 influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	[annual] basic series then every 10 yrs basic series preplacement
		TB X radiation	personal monitoring device IAM AR 40-14; AR 40-501 (7-17, 11-8)	monthly
649	Medical Machine Technician	infectious disease	influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	[annual] basic series then every 10 yrs basic series preplacement
660	Pharmacist	NR	influenza immunization	annual
661	Pharmacy Technician	infantus disease	tetanus and diphtheria immunization	basic series then every 10 yrs
662	Optometrist	NR	Rubella immunization (all susceptible individuals except pregnant females)	basic series preplacement
664	Restoration Technician	TB acrylic resins	dermatological exam	annual
665	Speech Pathology and Audiology	noise noise	audiogram	annual
		infectious disease	influenza immunization	annual
			tetanus and diphtheria immunization	basic series then every 10 yrs
			Rubella immunization (all susceptible individuals except pregnant females)	basic series preplacement
			TB	IAM AR 40-26

GS Series	Title	Determining Factor	Exam	Frequency
667	Orthotist-Prosthetist	noise brazing: UV, IR, IV, metal, flux fumes	audiogram eye evaluation chest x-ray	annual annual biennial, annual if exposure exceeds 10 yrs
668	Podiatrist	infectious disease	pulmonary functions urinalysis influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females) IAW AR 40-26	annual annual basic series then every 10 yrs basic series preplacement
669	Medical Record Librarian Hospital Administrator/Assistant/Officer/Specialist	TB	influenza immunization tetanus and diphtheria immunization (all susceptible individuals except pregnant females) IAW AR 40-26	annual basic series then every 10 yrs basic series preplacement
670	Hospital Housekeeping Management	infectious disease	urine mercury personal monitoring	monthly
673	Medical Record Technician		device IAW AR 40-14, AR 40-501 (7-17, 11-8)	
675	Dental Officer		CBC, SGOT, SEPT, ALK P04, LDH, UA, Creatinine, BUN audiogram	annual
680			do do acrylic resins noise	do do dermatological exam audiogram
681	Dental Assistant			annual
682	Dental Hygienist			
683	Dental Lab Aid/Technician			

GS Series	Title	Determining Factor	Exam	Frequency
688	Sanitarian	raw sewage	typhoid immunization	basic series then triennial
690	Industrial Hygienist	AR	AR	
698	Environmental Health Aid/Technician	infectious disease	influenza immunization	annual
699	Health Aid/Technician	tetanus and diphtheria immunization	basic series then every 10 yrs	
		Rubella immunization	basic series	
		(all) susceptible individuals except pregnant females)	replacement	
701	Veterinarian	TB infectious disease	TAW AR 40-26 tetanus rabies	basic series then every 10 yrs basic series then every 2-3 yrs
			TB	TAW AR 40-26
801	General Engineer	AR	AR	
802	Engineering Aid/Technician	AR	AR	
803	Safety Engineer	AR	AR	
804	Fire Prevention Engineer	AR	AR	
806	Materials Engineer	AR	AR	
807	Landscape Architect	NR	NR	
808	Architect	NR	NR	
809	Construction Inspector/Representative	AR	AR	
810	Civil Engineer	AR	AR	
817	Surveying Aid/Technician	NR	NR	
818	Engineering Draftsman	NR	NR	
819	Sanitary Engineer	AR	AR	
828	Construction Analyst	NR	NR	
830	Mechanical Engineer	AR	AR	
840	Nuclear Engineer	AR	AR	
850	Electrical Engineer	AR	AR	
855	Electronics Engineer	AR	AR	
856	Electronics Technician	AR	AR	
858	Biomedical Engineer	AR	AR	
861	Aerospace Engineer	AR	AR	
871	Naval Architect	NR	NR	
880	Mining Engineer	AR	AR	
881	Petroleum Engineer	AR	AR	
890	Agricultural Engineer	AR	AR	
892	Ceramic Engineer	AR	AR	
893	Chemical Engineer	AR	AR	
894	Welding Engineer	AR	AR	
895	Industrial Engineering Technician	AR	AR	
896	Industrial Engineer	AR	AR	
899	Engineering Student Trainee	AR	AR	
930	Hearings and Appeals Position	NR	NR	
950	Paralegal Specialist	NR	NR	
962	Contact Representative	NR	NR	
963	Legal Instruments Clerk/Examiner	NR	NR	

GS Series	Title	Determining Factor	Exam Frequency
986	Legal Clerk/Technician	NR	
998	Claims Clerk	NR	
1001	Interior Decorator/Color Designer	NR	
1010	Exhibits Specialist	AR	
1015	Museum/Staff Curator	AR	
1016	Museum Aid/Technician/Specialist	AR	
1020	Illustrator	NR	
1021	Office Draftsman	NR	
1045	Translator	NR	
1051	Music Specialist	AR	
1054	Theatre Specialist	NR	
1056	Art Specialist	NR	
1060	Photographer	inf sc. photographic chemicals	SGOT, SGPT, ALK P04, LDH, UA, Creatinine, BUN annual
1071	Audiovisual Production Officer/Specialist	NR	
1081	Public Information Officer/Specialist	NR	
1082	Writer/Editor	NR	
1083	Technical Writer/Editor	NR	
1084	Visual Information Officer/Specialist	NR	
1087	Editorial Clerk/Assistant	NR	
1102	Contract and Procurement	NR	
1103	Industrial Property Management/ Administration Specialist	NR	
1104	Property Disposal	AR	
1105	Purchasing Agent	NR	
1107	Property Disposal Clerk/Technician	AR	
1130	Public Utilities Assistant/Specialist	NR	
1135	Transportation Industry Analyst	NR	
1140	Trade Assistant/Specialist	NR	
1144	Commissary Store Manager/Officer	NR	
1147	Agricultural Market Commodity Reporter	NR	
1150	Industrial Specialist	NR	
1152	Production Control/Controller Aid	NR	
1160	Financial Assistant/Analyst	NR	
1163	Insurance Examiner	NR	
1165	Loan Assistant/Specialist	NR	
1170	Realty Specialist	NR	
1171	Appraiser	NR	
1173	Housing Project Manager/Assistant	NR	
1221	Patent Advisor	AR	
1301	Physical Scientist	AR	
1306	Health Physicist	var. radionuclides X radiation	biassays personal monitoring device TAW AR 40-14; AR 40-501 (7-17, 11-8) as appropriate monthly
1310	Physicist	NR	
1311	Physical Science Aid/Technician	AR	
1313	Geophysicist	AR	

CS Series	Title	Determining Factor	Exam	Frequency
1315	Hydrologist		AR	
1316	Hydrology Aid/Technician		AR	
1320	Chemist	misc. chemicals	SGOT, SGPT, ALK PO4, CBC, LDH, UA, Creatinine, BUN	annual
1321	Metallurgist		AR	
1330	Astronomy and Space Science		AR	
1340	Meteorologist		NR	
1341	Meteorology Aid/Technician		NR	
1350	Geologist		NR	
1360	Oceanographer		NR	
1361	Aeronautical/Marine Information Specialist		NR	
1370	Cartographer		NR	
1371	Cartography Aid/Technician		NR	
1372	Geodesist		NR	
1373	Land Surveyor		NR	
1374	Geodetic Aid/Technician		NR	
1380	Forest Production Technician		NR	
1382	Food Technologist		NR	
1384	Cotton/Fiber Technologist		NR	
1386	Photographic Technologist		NR	
1397	Document Analyst		NR	
1399	Physical Science Student Trainee		NR	
1410	Librarian		NR	
1411	Library Aid/Technician		NR	
1412	Technical Information Specialist/Officer		NR	
1420	Archivist		NR	
1421	Archives Aid/Technician/Specialist		NR	
1510	Actuary		NR	
1515	Operations Research Analyst		NR	
1520	Mathematician		NR	
1521	Mathematics Aid/Technician		NR	
1529	Mathematical Statistician		NR	
1530	Statistician		NR	
1531	Statistical Clerk/Assistant		NR	
1541	Cryptanalyst		NR	
1599	Mathematical Science Student/Trainee		NR	
1601	General Facilities and Equipment		NR	
1640	Facility Management Officer/Specialist		NR	
1641	Building and Grounds Manager		NR	
1654	Printing Assistant/Specialist/Officer		NR	
1658	Laundry/Dry Cleaning Plant Manager/		NR	
1666	Superintendent		NR	
1667	Housekeeping Steward		potential hazard to others	
1670	Equipment Specialist		I&W AR 40-5	
1701	General Education and Training		NR	
1702	Education Aid/Technician		NR	
1710	Educational and Vocational Training		NR	
1712	Training Instructor/Administrator/Specialist		AR	

GS Series	Title	Determining Factor	Exam	Frequency
1715	Vocational Rehabilitation Specialist	AR	NR	routine
1720	Educational Assistant/Specialist	physical stress	audiogram	age-related annual
1810	Investigator	noise do	do	do
1811	Criminal Investigator			
1820	Safety Inspector	AR	AR	
1899	Boiler Inspector	NR	NR	
1900	General Commodities Quality Control	NR	NR	
1903	Quality Control and Inspection Management	NR	NR	
1905	Subsistence Quality Control and Inspection	NR	NR	
1906	Clothing, Textile and Leather Quality Control and Inspection	NR	NR	
1910	Quality Assurance Specialist	AR	AR	
1915	Chemicals Quality Control and Inspection	AR	AR	
1916	Petroleum Quality Control and Inspection	AR	AR	
1920	Materials Quality Control and Inspection	AR	AR	
1925	Electrical Equipment Quality Control and Inspection	AR	AR	
1926	Electronic Equipment Quality Control and Inspection	AR	AR	
1940	Mechanical Equipment Quality Control and Inspection	AR	AR	
1941	Automotive Equipment Quality Control and Inspection	AR	AR	
1942	Aircraft Quality Control and Inspection	AR	AR	
1947	Ordnance Quality Control and Inspection	AR	AR	
1948	Ammunition Quality Control and Inspection	AR	AR	
1950	Missile Quality Control and Inspection	AR	AR	
1955	Space System Quality Control and Inspection	AR	AR	
1960	Quality Inspection Specialist	AR	AR	
1961	Calibration and Measurement Quality Control and Inspection	AR	AR	
1965	Metallic Materials Treatment Processes Quality Control and Inspection	AR	AR	
1970	Preservation and Packaging Quality Control and Inspection	AR	AR	
1980	Agricultural Commodity Grader	NR	NR	
2131	Packaging Specialist	NR	NR	
2040	Supply Clerk	NR	NR	
2100	Transportation Clerk	NR	NR	
2130	Traffic Manager/Management Specialist	NR	NR	
2132	Freight Rate Assistant/Specialist	NR	NR	
2133	Passenger Rate Assistant/Specialist	NR	NR	
2144	Cargo Scheduler	NR	NR	
2150	Automotive Transport Specialist/Administrator	I&W AR 40-501		
2151	Motor Vehicle/Auto Equipment Dispatcher	NR		
2152	Air Traffic Control Specialist	audiogram		
2161	Marine Cargo Assistant/Specialist	noise		
2181	Aircraft Operator	I&W AR 40-501		

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WAGE GRADE EMPLOYEES

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WG Series	Title	Determining Factor	Exam	Frequency
2502	Telephone Mechanic	physical stress, heights	routine	age-related
2504	Wire Communications Cable Splicing		AR	
2506	Telephone Equipment Inspector		NR	
2508	Telephone Lineman	physical stress, heights noise	routine	age-related
2509	Teletypewriter Installing and Repairing		audiogram	annual]
2510	Wire Chief		AR	
2511	Wire Communications Equipment Installer and Repairer		NR	
2512	Wire Communications Equipment Inspector		NR	
2513	Cryptographic Equipment Installer and Repairer		NR	
2514	Automatic Telegraph Communications Switching		NR	
2602	Equipment Installing and Repairing		NR	
2603	Electronic Test Equipment Repairer/Maker/ Installer	X radiation	personal monitoring device	monthly
	Electron Tube Making		IAW AR 40-14; AR 40-501 (7-17, 11-8)	
			eye evaluation	annual]
			pulmonary functions	annual]
			chest x-ray	biennial]
			urinalysis	NR
2605	Mine Control Systems Repairer	microwave	ophthalmoscopic exam, slit lamp exam of lens, preplacement and termina- tion determination of best visual acuity	preplacement and termination
2606	Radar Equipment Inspector		eye evaluation	annual]
2609	Radio Equipment Inspecting	laser	IAW AR 40-46	
2612	Fire Control Instrument Inspector	microwave	ophthalmoscopic exam, slit lamp exam of lens, preplacement and termina- tion determination of best visual acuity	
2614	Electronic Mechanic		eye evaluation	annual]
2615	Electronic Equipment Inspector		NR	
2616	Motion Picture Sound Transmission Installer and Repairer	noise	audiogram	annual]
2619	Electronic-Mechanical Communications Equipment Installer and Repairer	noise	audiogram	annual]
2621	Toll Office Telephone Equipment Installer and Repairer		NR	
2650	Electrical Integrated Systems Mechanic		NR	

WG Series	Title	Determining Factor	Exam	Frequency
2702	Crystal Cutter	silica	pulmonary functions TB testing chest x-ray	annual biennial, annual if exposure exceeds 10 yrs
2703	Crystal Etcher and Oilier	do	do	do
2704	Crystal Finisher	do	do	do
2705	Crystal Inspector	do	do	do
2706	Crystal Lapper	do	do	do
2707	Crystal Orientator	do	do	do
2708	Crystal Technician	do	do	do
2802	Electrician, Marine	noise	audiogram	annual
2804	Electrical Inspector	NR	NR	do
2805	Electrician (high voltage)	physical stress, heights noise	routine audiogram	age-related annual
2854	Electrical Equipment Repairer	NR	NR	do
2902	Public Address Equipment Operator	NR	NR	do
2903	Radio Transmitter Operator	NR	NR	do
3103	Shoe Repairing	noise	audiogram	annual
3105	Fabric Worker	noise	audiogram	annual
3106	Upholsterer	do	do	do
3111	Sewing Machine Operator	do	do	do
3114	Mattress Repairer	do	do	do
3120	Parachute Inspector	NR	NR	do
3121	Parachute Packer	NR	NR	do
3122	Leather Products Inspector	NR	NR	do
3124	Floor Coverer	NR	NR	do
3202	Auto Glass Repairer	UV, IR	eye evaluation	annual
3203	Glazer	NR	NR	do
3204	Glassblower	NR	NR	do
3306	Optical Instrument Repairer	NR	NR	do
3307	Nautical Instrument Repairer	NR	NR	do
3309	Timekeeping Instrument Repairer	NR	NR	do
3310	Industrial Instrument Inspector	NR	NR	do
3359	Instrument Mechanic	NR	NR	do
3403	Model Maker, Metal	NR	NR	do
3405	Pattern Maker, Metal	NR	NR	do
3406	Buffing and Polishing	NR	NR	do
3407	Coil or Wire Machine Operating	NR	NR	do
3416	Automotive Machinist	NR	NR	do
3412	Instrument Maker and Repairer	NR	NR	do
3413	Machined Parts Inspecting	NR	NR	do
3414	Machinist	NR	NR	do
3416	Tool Maker	NR	NR	do
3417	Tool Grinding and Repairing	NR	NR	do
3420	Layout Man	NR	NR	do
3422	Power Saw Operating	NR	NR	do

WG Series	Title	Determining Factor	Exam	Frequency
3428	Die Sinker	noise UV, IR physical stress noise cutting oils	audiogram eye evaluation routine audiogram dermatological exam	annual annual age-related annual
3430	Tool and Gage Checker	do	do	annual
3431	Machine Tool Operator	noise	audiogram	annual
3433	Machine Tool Inspecting Laborer	noise physical stress cleaning solutions	audiogram routine dermatological exam	annual annual
3502	Janitor Cement Finisher	noise cement epoxy resins	audiogram dermatological exam NR	annual annual annual
3566	Mason	heights coal tar pitch volatiles	routine chest x-ray	age-related biennial, annual if exposure exceeds 10 yrs
3602	Tile Setting	cement	pulmonary functions	annual
3603	Plasterer	coal tar pitch volatiles	urinalysis dermatological exam NR	annual annual annual
3604	Roofers		chest x-ray	biennial, annual if exposure exceeds 10 yrs
3605				
3606				
3608	Holder, Materials Floor Layer		pulmonary functions	annual
3609	Asphalt Worker		urinalysis dermatological exam	annual
3653			audiogram eye evaluation	annual annual
3702	Flame Cutter	noise UV, IR, IV metal and flux fumes	pulmonary functions chest x-ray urinalysis blood lead CBC, UA	annual annual biennial annual semi annual annual
3703	Welder	lead (painted surfaces, if exposure exceeds 0.05 mg/m ³)	do	do
3704	Blacksmith	do	do	do
3705	Welding Inspector	noise X radiation silica	audiogram personal monitoring device pulmonary functions TB testing chest x-ray	monthly annual annual annual biennial, annual if exposure exceeds 10 yrs
3706	Core Maker			

WG Series	Title	Determining Factor	Exam	Frequency
3707	Metalлизинг	UV, IR, IV noise metal fumes	eye evaluation audiogram pulmonary functions chest x-ray urinalysis	annual annual annual biennial annual
3708	Foundry worker	silica	pulmonary functions TB testing chest x-ray	annual biennial, annual if exposure exceeds 10 yrs annual
3709	Cast Room Working	UV, IR, IV noise metal fumes	eye evaluation audiogram pulmonary functions chest x-ray	annual annual annual
3710	Furnace Tender, Foundry	physical stress, heat noise	routine AR	age-related
3711	Electroplater	chromium and nickel	dermatological and nasal exam	annual annual
3712	Heat Treater	acid mists misc. solvents oil mist noise	sputum cytology pulmonary functions chest x-ray dental exam SGOT, SGPT, ALK P04, CBC dermatological exam audiogram	annual annual annual triennial annual annual age-related annual
3713	Clipper	physical stress, heat noise	routine AR	age-related
3714	Molder	lead (if exposure exceeds 0.05 mg/m ³)	routine blood lead CBC, UA	semi annual annual
3715	Smelter	UV, IR, IV	eye evaluation	annual
3716	Leadburner	metal and flux fumes	chest x-ray pulmonary functions urinalysis	biennial annual annual
3720	Brazier and Solderer	lead (if exposure exceeds 0.05 mg/m ³) noise noise X radiation	blood lead CBC, UA audiogram audiogram personal monitoring device	semi annual annual annual monthly
3721	Shrink Pit Operator			
3722	Cold Worker			
3723	Casting Machine Operator			
3724	Casting Inspector			
				[AN AR 40-14; AR 40-501 (7-17, 11-8)]

W6 Series	Title	Determining Factor	Exam	Frequency
3725	Battery Repairer	acids and acid mists lead (if exposure exceeds 0.05 mg/m ³)	dental exam blood lead CBC, UA audiogram	triennial semi annual
3802	Drop Hammer Operating	noise	annual	annual
3803	Punch Press Operating	noise	annual	annual
3804	Coppersmithing	noise	annual	annual
3805	Metal Products Inspector	noise	NR	
3806	Sheet Metal Mechanic	lead (painted surfaces, if exposure exceeds 0.05 mg/m ³)	audiogram eye evaluation pulmonary functions chest x-ray urinalysis blood lead CBC, UA	annual annual annual biennial annual semi annual annual
3807	Structural Iron Worker	do	do	age-related
3808	Boilermaker	physical stress noise welding: UV, IR, metal and flux fumes	routine audiogram eye evaluation urinalysis pulmonary functions chest x-ray pulmonary functions	annual annual annual annual annual annual
3809	Mobile Equipment Metal Mechanic	asbestos (if exposure exceeds 0.1 fibers/cc)	chest x-ray sputum cytology TB testing pulmonary functions chest x-ray	biennial, annual if exposure exceeds 10 yrs
3810	Forgeings Heater	silica	annual annual annual annual annual	annual annual annual annual annual
3811	Press Operator	noise	audiogram eye evaluation urinalysis pulmonary functions chest x-ray	biennial, annual if exposure exceeds 10 yrs
3812	Forgeings Inspector	oil mist heat noise UV, IR, IR	TB testing pulmonary functions chest x-ray	annual annual annual annual annual
3813		noise	dermatological exam routine audiogram eye evaluation AR	age-related annual annual annual

Wk Series	Title	Determining Factor	Exam	Frequency
3814	Automotive/Engineer Equipment Repairer	noise UV, IR, IV metal and flux fumes	audiogram eye evaluation chest x-ray pulmonary functions urinalysis blood lead	annual annual biennial annual annual semi annual
3815	Riveter	lead (if exposure exceeds 0.05 mg/m ³)	CBC, UA	annual
3820	Shipfitter	noise	audiogram	annual
3902	Make-up Artist	noise	NR	annual
3903	Studio Grip	noise	audiogram	annual
3904	Studio Sound Room Man	noise	NR	annual
3905	Property Man Drapery	noise	audiogram	annual
3906	Property Man Wardrobe	organic solvents	SGOT, SGPT, ALK P04, CBC	annual
3907	Scenic Artist	lead (if exposure exceeds 0.05 mg/m ³)	blood lead	semi annual
3908	Property Man	isocyanates (urethane)	CBC, UA	annual
3909	Motion Picture Film Inspector and Reclaimer	total eosinophil count	annual	annual
3910	Motion Picture Projectionist	pulmonary functions	NR	annual
3911	Sound Recording Equipment Operator	NR	audiogram	annual
3912	Motion Picture Negative Worker	NR	SGOT, SGPT, ALK P04, LDH, UA, Creatinine, BUN	annual
3913	Motion Picture Developing Machine Operator	do	do	do
3914	Motion Picture Printing Machine Operator	NR	SGOT, SGPT, ALK P04, LDH, UA, Creatinine, BUN	annual
3915	Film Slitting Machine Operator	NR	audiogram	annual
3916	Film Cleaning Machine Operator	NR	SGOT, SGPT, ALK P04, LDH, UA, Creatinine, BUN	annual
3917	Magnastrip Application Machine Operator	NR	audiogram	annual
3918	Film Searcher	NR	audiogram	annual
3919	TV Control and Equipment Operator	NR	dermatological exam	annual
4002	Blocking (Optical Elements)	NR	audiogram	annual
4003	Cementing (Optical Elements)	NR	audiogram	annual
4005	Polishing (Optical Elements)	NR	audiogram	annual
4006	Grinding (Optical Elements)	NR	audiogram	annual
4007	Plating (Optical Elements)	NR	audiogram	annual
4009	Lens Coating (Optical Elements)	NR	audiogram	annual
4010	Spectacle Lens Bench Working	NR	audiogram	annual
4011	Spectacle Lens Surfacing	NR	SGOT, SGPT, ALK P04, CBC	annual
4012	Optical Etching	lead (if exposure exceeds 0.05 mg/m ³)	blood lead	semi annual
4015	Optical Element Inspector	isocyanates (urethane)	total eosinophil count	annual
4102	Painter	NR	pulmonary functions	annual
4103	Paperhanging	NR	NR	NR

WS Series	Title	Determining Factor	Exam	Frequency
4402	Binding Working Compositor	noise noise lead (if exposure exceeds 0.05 mg/m ³) methylene chloride inks	audiogram audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual annual annual annual
4403		noise noise lead (if exposure exceeds 0.05 mg/m ³) methylene chloride inks	audiogram audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual annual annual
4404	Draftsman, Offset	noise noise methylene chloride inks	audiogram audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual annual annual
4405	Film Assembly-Stripping	misc. photographic chemicals	SGOT, SGPT, ALK PO ₄ , LDH, UA, Creatinine, BUN dermatological exam	annual annual
4406	Press Operator, Printing	noise noise lead (if exposure exceeds 0.05 mg/m ³) methylene chloride inks	audiogram audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual do
4407	Linotype Operating	do	do	do
4408	Relief Model Reproduction	do	NR	annual semi annual
4409	Mounting	do	audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual
4410	Monotype Casting Machine Operator and Repairer	noise lead (if exposure exceeds 0.05 mg/m ³) methylene chloride inks	audiogram blood lead CBC, UA routine with CV emphasis dermatological exam	annual annual semi annual annual age-related annual annual annual
4411	Monotype Keyboard Operator	noise noise	audiogram NR	annual annual
4412	Heliograph Operator	IV	eye evaluation	annual
4413	Negative Engraver	IV	eye evaluation	annual
4414	Photography (Offset)	noise	audiogram	annual
4415	Plate Graining	noise	SGOT, SGPT, ALK PO ₄ , CBC dermatological exam	annual annual
4416	Plate Making	noise solvents	SGOT, SGPT, ALK PO ₄ , CBC dermatological exam	annual annual
4417	Press Operating Offset	solvents	SGOT, SGPT, ALK PO ₄ , CBC dermatological exam	annual annual
4418	Printing Plant Equipment Mechanic	do misc. chemicals	do SGOT, SGPT, ALK PO ₄ , LDH, UA, CBC, Creatinine, BUN dermatological exam	do annual
4419	Silk Screen Printer	misc. solvents inks	SGOT, SGPT, ALK PO ₄ , CBC dermatological exam	annual annual
4420	Transferar	do	do	do
4421	Chemical Mixer	do	SGOT, SGPT, ALK PO ₄ , LDH, UA, CBC, Creatinine, BUN dermatological exam	annual annual
4422	Dot Etcher	do	SGOT, SGPT, ALK PO ₄ , CBC dermatological exam	annual annual

W Series	Title	Determining Factor	Exam	Frequency
4423	Pantographer	noise misc. solvents	audiogram SGOT, SGPT, ALK PO ₄ , LDH, UA, CBC, Creatinine, BUN	annual annual
		inks	dermatological exam	annual
4424	Multigraph Operator	do	AR	do
4425	Photoengraver	do	do	do
4426	Relief Map Model Maker	do	do	do
4427	Xerox Operating	do	AR	do
4428	Blueprinting and Diamo Equipment Operating	inks misc. chemicals	dermatological exam SGOT, SGPT, ALK PO ₄ , LDH, CBC, UA, Creatinine, BUN	annual annual
4429	Photostat Operating	do	do	do
4430	Microphotography Working	do misc. photographic chemicals	SGOT, SGPT, ALK PO ₄ , LDH, UA, Creatinine, BUN	annual
4431	Photocomposition Machine Operating	NR	NR	semi annual & preplacement preplacement
4432	Composite (Paste-up)	NR	NR	semi annual & preplacement preplacement
4502	Tire and Tube Inspector	benzene (if exposure exceeds 0.5 ppm)	CBC, platelet count bilirubin, reticulocyte count	annual
4503	Rubber Products Fabricator and Repairer	var. chemicals noise benzene (if exposure exceeds 0.5 ppm)	AR audiogram CBC, platelet count bilirubin, reticulocyte count	semi annual & preplacement preplacement
4504	Tire and Tube Repairing	var. chemicals benzene (if exposure exceeds 0.5 ppm)	AR CBC, platelet count bilirubin, reticulocyte count	semi annual & preplacement preplacement
4507	Rubber Products Inspector	AR	NR	age-related
4508	Rubber Compounder	physical stress noise noise lead (if exposure exceeds 0.05 mg/m ³)	routine audiogram audiogram blood lead CBC, UA	annual annual semi annual annual
4554	Rubber Equipment Repair	noise	audiogram	annual
4602	Blocker and Bracer	noise	audiogram	annual
4603	Boat Repairer	noise	audiogram	annual
4604	Woodworker	noise	audiogram	annual
4605	Woodcraftsman	noise	audiogram	annual
4606	Carpenter, Manual	noise	audiogram	annual
4607	Carpenter	noise	audiogram	annual
4608	Sawmill Operator	noise	audiogram	annual
4610	Carpenter, Studio	methylene chloride misc. solvents	routine with CV emphasis SGOT, SGPT, ALK PO ₄ , CBC, UA, Creatinine, BUN	annual annual
4613	Furniture Repairer	isocyanates	pulmonary functions total eosinophil count audiogram	annual annual
		noise		

Series	Title	Determining Factor	Exam	Frequency
4614	Model Maker, Wood Patternmaker	noise	audiogram	annual
4616	Woodworking Machine Operator	noise	audiogram	annual
4618	Wood Body Repairer	noise	audiogram	annual
4619	Shoe Last Repairer	noise	audiogram	annual
4620	Crating Inspector	noise	audiogram	annual
4622	Gum Stock Maker and Finisher	methylene chloride m.s.c. solvents	routine with CV emphasis SGOT, SGPT, ALK PO ₄ , CBC, UA, Creatinine, BUN	annual
4623		isocyanates	pulmonary functions total eosinophil count	annual
4702	Construction Supervising	noise	audiogram	annual
4703	Construction and Maintenance Supervising	noise	audiogram	annual
4704	Maintenance Supervising	noise	NR	annual
4705	Maintenance Inspector	noise	audiogram	annual
4706	River and Harbor Construction Supervising	noise	NR	annual
4712	Instrument Maker	noise	audiogram	annual
4714	Model Maker	noise	AR	annual
4742	Utilities Systems Repairer-Operator	noise	AR	annual
4749	Maintenance Mechanic	noise	AR	annual
4802	Musical Instrument Repairer	noise	AR	monthly
4803	Fire Extinguisher Servicing	X radiation	audiogram personal monitoring device I&M AR 40-14; AR 40-501 (7-17, 11-8)	annual
4804	Garden Equipment Repairing	noise	audiogram	annual
4805	Medical Equipment Repairer	textile finishes	dermatological exam	annual
4806	Office Appliance Repairer	noise	NR	annual
4807	Chemical Equipment Repairer		NR	annual
4808	Custodial Equipment Repairer		NR	annual
4810	Sponging Equipment Repairing		NR	annual
4811	Musical Instrument Inspecting	noise	audiogram eye evaluation chest x-ray	biennial, annual if exposure exceeds 10 yrs
4812	Saw Reconditioner	brazing: UV, IV, IR metal and flux fumes	pulmonary functions urinalysis audiogram	annual annual
4813	Office Appliance Inspector	noise	NR	annual
4814	Survey Equipment Repairer		AR	annual
4815	Chemical Equipment Inspector		AR	annual
4816	Protective and Safety Equipment Fabricator and Repairer		AR	annual
4817	Protective and Safety Equipment Inspector		AR	annual
5003	Gardener		AR	annual
5004	Cemetery Caretaking		AR	annual

NG Series	Title	Determining Factor	Exam	Frequency
5026	Pest Controller	organophosphates	cholinesterase	baseline, prior to spraying season then annually or quarterly depending on toxicity of pesticides used age-related
5031	Insects Production Worker Rigger	mobile equipment operation noise	routine AR audiogram	annual
5210		physical stress, heights noise	routine audiogram AR	age-related annual
5212	Laboratory Worker	noise physical stress, heights asbestos (if exposure exceeds 0.1 fiber/cc)	audiogram routine sputum cytology chest x-ray	annual annual
5220	Shipwright	noise physical stress, heights asbestos (if exposure exceeds 0.1 fiber/cc)	pulmonary functions routine with CV emphasis audiogram	annual age-related annual
5303	Asbestos Working	refrigerant gases noise noise noise welding: UV, IR metal and flux fumes	audiogram eye evaluation chest x-ray urinalysis blood lead CBC, UA	annual annual biennial annual semiannual annual
5306	Air Conditioning Equipment Mechanic	lead (if exposure exceeds 0.05 mg/m ³) coal tar pitch volatiles	pulmonary functions sputum cytology chest x-ray dermatological exam audiogram chest x-ray	biennial, annual if exposure exceeds 10 yrs annual biennial, annual if exposure exceeds 10 yrs annual annual
5307	Shoe Machine Repairing	noise	pulmonary functions chest x-ray	biennial, annual if exposure exceeds 10 yrs annual
5308	Gas Appliance Repairer	coal dust	silica	annual annual
5309	Heating and Boiler Plant Equipment Mechanic	asbestos (if exposure exceeds 0.1 fiber/cc)	TB testing chest x-ray sputum cytology pulmonary functions	annual annual NR
5311	Locksmith			

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WS Series	Title	Determining Factor	Exam	Frequency
5312	Sewing Machine Repairer	noise	audiogram	annual
5313	Elevator Mechanic	petroleum products	dermatological exam	annual
5314	Gasoline Distribution Equipment Repairer	tetraethyl lead	urine, lead	semi annual
5317	Laundry and Dry Cleaning Equipment Mechanic	benzene (if exposure exceeds 0.5 ppm)	CBC, UA CBC, platelet count	annual semi annual & replacement
5318	Lock and Dam Maintenance and Repairing	noise	bilirubin, reticulocyte count	annual
5320	Coffee Plant Equipment Mechanic	perchloroethylene	audiogram	SGOT, ALK PO ₄ , LDH, SGPT, annual
5321	Laundry and Dry Cleaning Equipment Inspector	noise	bilirubin	annual
5322	Refrigeration and Air Conditioning Equipment Inspector	perchloroethylene	audiogram	SGOT, ALK PO ₄ , LDH, SGPT, annual
5313	Oiler and Greaser	refrigerant gases	bilirubin	annual
5324	Hydroelectric Powerhouse Mechanical Equipment Repairer	cutting oils	routine with CV emphasis	age-related
5326	Bridge Repairer	noise	dermatological exam	annual
5352	Equipment Mechanic	cutting oils	audiogram	annual
5378	Powered Support Systems Mechanic	physical stress, physical stress,	SGOT, SSPT, ALK PO ₄ , CBC	annual
5402	Boiler Fireman	heat, CO coal dust	blood lead CBC, UA total eosinophil count pulmonary functions	semi annual
5402	Boiler Plant Operator	noise	audiogram	annual
5403	Incinerator Operator	noise	routine with CV emphasis	biennial, annual if exposure exceeds 10 yrs
5404	Operating Engineer, Gas Systems	physical stress, heat, CO	audiogram	annual
5406	Utility Systems Operator	noise	do	do
5407	Electric Power Controller	noise	audiogram	annual

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Series	Title	Determining Factor	Exam	Frequency
5408	Sewage Disposal Plant Operator	raw sewage chlorine	typhoid immunization dental exam	basic series then triennial triennial age-related annual
5409	Water Treatment Plant Operator	chlorine	pulmonary functions dental exam	triennial triennial age-related annual
5410	Asphalt Plant Operator	physical stress coal tar pitch volatiles	pulmonary functions routine chest x-ray	age-related biennial, annual if exposure exceeds 10 yrs annual
5411	Air Compressor Operator	noise	pulmonary functions urinalysis dermatological exam	annual
5412	Coal Unloader Operator	noise physical stress noise coal dust	audiogram audiogram routine chest x-ray	annual age-related annual biennial, annual if exposure exceeds 10 yrs annual
5413	Fuel Distribution Systems Operating	petroleum products tetraethyl lead benzene (if exposure exceeds 0.5 ppm)	pulmonary functions urine lead CBC, UA CBC, platelet count bilirubin, reticulocyte count	dermatological exam annual semi annual semi annual & replacement
5414	Baling Machine Operator	noise	audiogram	annual
5415	Refrigeration and Air Conditioning Equipment Operator	refrigerant gases, cold lubricating fluids	routine with CV emphasis dermatological exam	age-related annual
5416	Coffee Plant Equipment Operator	noise	audiogram	annual
5417	Parts and Equipment Steam Cleaner Operator	heat	routine	age-related annual
5420	Alum Plant Operator	noise noise Kaolin, coal shale dust	audiogram audiogram chest x-ray	annual biennial, annual if exposure exceeds 10 yrs annual triennial
5422	Fungating and Decontaminating Equipment Operating	sulfuric acid mist	pulmonary functions dental exam AR	biennial, annual if exposure exceeds 10 yrs annual
5423	Sandblaster	silica	chest x-ray	annual annual annual age-related
			pulmonary functions TB testing audiogram routine	

Series	Title	Determining Factor	Exam	Frequency
5424	Weighing Machine Operator	noise	NR audiogram	annual
5426	Lock and Dam Operator		AR	
5427	Chemical Plant Equipment Operator		AR	
5428	Biological Plant Operator		NR	
5429	Bridge Operator		audiogram	annual
5430	Furnace Tender, Popping Plant	noise	NR	annual
5431	Fish Facility Operator	phosphine	x-ray of lower-jaw	annual
5432	Oxygen/Acetylene Plant Operator		dental exam	annual
5433			CBC	
5434	Baking Equipment Operator	potential hazard to others	TAN AR 40-5	annual
5435	Carton and/or Bag Mixing Machine Operator	noise	audiogram	annual
5436	Sponging Equipment Operator	noise	audiogram	annual
5437	Paper Processing Machine Operator	textile finishes	dermatological exam	annual
5438	Elevator Operator	asbestos (if exposure exceeds 0.1 fiber/cc)	AR	annual
5439	Materials and/or Products Tester	paper finishes	chest x-ray	annual
5440	Packaging Machine Operator	noise	pulmonary functions	annual
5502	Drilling Machine Operator	noise	TB testing	annual
5503	Scalper Machine Operator	silica	do	annual
5505	Crusher Operating	silica	do	annual
5703	Motor Vehicle Operator	potential hazard to others	do	age-related
5704	Forklift Operator	noise	routine	age-related
5705	Tractor Operator	potential hazard to others	routine	age-related
5706	Road Sweeper Operator	noise	audiogram	annual
5707	Tank Driving	noise	do	do
5713	Concrete or Mortar Mixing Operator	concrete	audiogram	annual
5715	Diesel Tugger Operator	potential hazard to others	dermatological exam	annual
5716	Engineering Equipment Operator	noise	routine	age-related
5725	Crane Operator	noise	audiogram	annual
5718	Crane Groundsman	noise	do	do
5729	Drill Rig Operator	noise	do	do
			audiogram	annual

W ⁶ Series	Title	Determining Factor	Exam	Frequency
5730	Core Drill Inspector	noise	audiogram	annual
5732	Pneumatic Tool Operating	noise	audiogram	annual
5802	Engineer Equipment Inspecting	potential hazard to others	routine	age-related
5803	Heavy Mobile Equipment Mechanic	noise	audiogram	annual
5806	Mobile Equipment Servicer	noise	audiogram	annual
5808	Combat Vehicle Inspector	noise	audiogram	annual
5809	Combat Vehicle Mechanic-Fuel and Electrical Systems	noise	audiogram	annual
5814	Automotive Equipment Inspecting	noise	audiogram	annual
5818	Automotive or Engineer Equipment Repairing-Fuel and Electrical Systems	noise CO	routine with CV emphasis NR	age-related
5823	Automotive Mechanic	noise	audiogram	annual
5827	Drill Equipment Repairer	noise	audiogram	annual
5857	Powered Ground Equipment Repairer	noise	audiogram	annual
5858	Powered Ground Equipment Inspector	noise	audiogram	annual
5902	Amphibian Truck Operator	potential hazard to others	routine	age-related
5903	Boat Operating	noise	audiogram	annual
5904	Bucket Dredge Operator	do	do	do
5905	Deck Equipment Operator	noise	audiogram	annual
5906	Deckhand	organic solvents	SGOT, SGPT, ALK PO ₄ , LDH, CBC	annual
		lead (if exposure exceeds 0.05 mg/m ³)	blood lead CBC, UA	semi annual
		isocyanates (urethane)	total eosinophil count pulmonary functions NR	annual
5907	Derrickboat Operator	potential hazard to others	routine	age-related
		noise	audiogram	annual
5908	Dipper Dredge Operator	do	do	do
5909	Dredging Equipment Operating	do	do	do
5910	Barge Operator	do	do	do
5911	Engineer, Diesel	noise	audiogram	annual
5912	Engineer, Diesel Electric	noise	audiogram	annual
5913	Engineer, Steam	noise	audiogram	annual
5914	Engineer, Steam Electric	noise	audiogram	annual
5915	Firman-Water Tender	physical stress, heat, CO	routine with CV emphasis	age-related
		noise	audiogram	annual
		noise	audiogram	annual
5916	Hyacinth Removal Plant Operator	noise	audiogram	annual
5917	Master-Mate Mopper Dredge	noise	audiogram	annual
5918	Master-Mate Large Survey Boats, Tugboats, Tugs	do	do	do
5919	Master-Mate Pipeline Dredge	do	do	do
5920	Pile Driver, Floating Plant	potential hazard to others	routine	age-related
		noise	audiogram	annual

Series	Title	Determining Factor	Exam	Frequency
5921	Pilot	noise	audiogram	annual
5922	Pipeline Man	noise	audiogram AR	annual
5923	Quartermaster	noise	audiogram	annual
5924	Revetment Working	noise	audiogram	annual
5925	Shipkeeping	concrete	dermatological exam	annual
5926	Ship-Oiler	cutting oils	dermatological exam	annual
5927	Quarterboat Utilities Operator	noise	audiogram	annual
5928	Scowman	noise	audiogram	annual
5929	Master-Mate Snapboat	noise	audiogram	annual
5930	Debris Worker, Marine	noise	audiogram	annual
5931	Dockhand	noise	audiogram	annual
5932	Dockmaster	noise	audiogram	annual
6003	Brakeman and Conductor	noise	audiogram	annual
6004	Locomotive Engineer	potential hazard to others	routine	age-related
		coal dust	chest x-ray	biennial, annual if exposure exceeds 10 yrs
			pulmonary functions	annual
6006	Yardmaster		NR	
6102	Locomotive Electrical Systems Repairing	noise	audiogram	annual
6103	Locomotive Inspecting	physical stress	routine	age-related
6104	Locomotive Repairing	noise	audiogram	annual
6105	Railroad Car Repairing	cutting oils	dermatological exam	annual
		organic solvents	SGOT, SGPT, ALK PO ₄ , LDH, CBC	annual
			blood lead	annual
		lead (if exposure exceeds 0.05 mg/m ³)	CBC, UA	annual
		isocyanates (urethane)	total eosinophil count	annual
			pulmonary functions	annual
		noise	audiogram	annual
		physical stress	routine	age-related
		noise	audiogram	annual
		potential hazard to others	audiogram	annual
6106	Railroad Repairer		NR	
6150	Railroad Maintenance Vehicle Operator		NR	
6202	Feeder Maker	noise	audiogram	annual
6206	Loftsmen	hyperbaric conditions	IMR AR 40-501	annual
6207	Pier Facilities Worker	noise	audiogram	annual
6208	Diver			
6210	Marine Equipment Inspector			

WS Series	Title	Determining Factor	Exam	Frequency
6502	Explosives Operator	TNT nitroglycerine	SGOT, LDH hemoglobin or hematocrit routine with CV emphasis EKG stress test	quarterly quarterly age-related semi annual only if EKG or Hx of ischemic heart disease
6505	Munitions Destroyer	tetryl noise	pulmonary functions dermatological exam audiogram	annual annual
6506	Ammunition Loading Inspector	TNT	do	do
6507	Powder and Explosives Inspector	nitroglycerine	SGOT, LDH, ALK PO ₄ , SGT, bilirubin hemoglobin or hematocrit routine with CV emphasis EKG stress test	quarterly quarterly age-related semi annual only if EKG or Hx of ischemic heart disease
6511	Munitions Handler	tetryl	pulmonary functions dermatological exam	annual annual
6512	Toxic Materiel Handler	do	do	do
6514	Surveillance Inspector	TNT	SGOT, LDH, SGPT, ALK PO ₄ , bilirubin hemoglobin or hematocrit routine with CV emphasis EKG stress test	quarterly quarterly age-related semi annual only if EKG or Hx of ischemic heart disease
6515	Small Arms Ammunition Inspector	tetryl	pulmonary functions dermatological exam	annual annual
6517	Explosives Test Operator	indoor ranges: CO lead (if exposure exceeds 0.05 mg/m ³) noise	routine with CV emphasis blood lead CBC, UA audiogram	age-related semi annual annual annual
6604	Artillery Inspector	noise	audiogram	age-related
6605	Artillery Repairer	physical stress	routine AR	age-related
6606	Civilian Gunner	noise	audiogram	annual
6610	Small Arms Repairer	noise	audiogram	age-related
6609	Small Arms Inspector	test firing: CO lead (if exposure exceeds 0.05 mg/m ³)	routine with CV emphasis blood lead CBC, UA	semi annual annual semi annual
6611	Mechanical Fuze Installer and Repairer	noise	audiogram	annual
6613	Guided Missile Mechanical Inspector	noise	audiogram	annual
6641	Ordnance Equipment Mechanic	noise	audiogram	annual
6652	Aircraft Ordnance Systems Mechanic	noise	audiogram	annual

WG Series	Title	Determining Factor	I	xam	Frequency
6702	Shop Checking	NR	NR		
6703	Production Planner	NR			
6704	Production Estimator	NR			
6705	Materials Expediter	routine			
6706	Expenditure Underwriting	NR			
6902	Lumber Handler	NR			
6903	Coal Handling	noise coal dust	audiogram pulmonary functions chest x-ray	annual biennial, annual if exposure exceeds 10 yrs	
6904	Tools and Parts Attendant	NR			
6907	Warehouseman	CO	routine with CV emphasis	age-related	
6910	Warehouse Forklift Operating	noise	audiogram	annual	
6911	Salvage Processor and Laborer	IR	eye evaluation	annual	
6912	Material Sorter and Classifier	metal and flux fumes	pulmonary functions urinalysis chest x-ray blood lead CBC, UA	annual biennial semi annual annual	
7002	Packer	lead (if exposure exceeds 0.05 mg/m ³)	audiogram	NR	
7003	Packing Inspector	noise	dental exam	NR	
7004	Preservation Packager	acid mists	audiogram	AR	
7005	Processing Inspector	heat	routine	AR	
7006	Preservation Servicecar	do	audiogram	do	
7009	Equipment Cleaner	noise	routine	AR	
7304	Laundry Worker	perchloroethylene	SGOT, ALK PO ₄ , SGPT, LDH, bilirubin	annual	
7305	Laundry Machine Operator	do	do	NR	
7306	Presser	potential hazard to others	potential hazard to others	do	
7307	Dry Cleaning	heat	routine	IAW AR 40-5	
7351	Laundry Operating	heat	routine	IAW AR 40-5	
7403	Baker	potential hazard to others	do	do	
7404	Cook	do	do	do	
7405	Bartender	cold	routine	do	
7406	Dough Mixer	noise	audiogram	age-related	
7407	Meatcutter	potential hazard to others	IAW AR 40-5	annual	

IG Series	Title	Determining Factor	Exam	Frequency
7408	Food Service Worker	potential hazard to others	IAW AR 40-5	
7409	Fat Rendering	potential hazard to others	NR	
7410	Ice Cream Maker	formalin	IAW AR 40-5	
7503	Mortuary Attending	infectious disease	pulmonary functions dermatological exam tetanus and diphtheria immunization	annual basic series then every 10 yrs
7504	Hurd Attending	TB infectious disease	IAW AR 40-26 influenza immunization tetanus and diphtheria immunization Rubella immunization (all susceptible individuals except pregnant females)	annual basic series then every 10 yrs basic series replacement
7602	Store Worker	TB	IAW AR 40-26	
7603	Barber		NR	
7605	Shoe Fitting		NR	
7606	Personal Servicing		AR	
7607	Bus Attending		NR	
7641	Beautician		NR	
7702	Teamster		NR	
7704	Rider, Horse		NR	
7705	Trainer, Horse and Mule		NR	
7706	Animal Caretaker	physical stress infectious disease	routine tetanus immunization rabies immunization	age-related basic series then every 10 yrs basic series then every 2-3 yrs
8255	Pneumatic Systems Mechanic	TB	IAW AR 40-26	
8260	Aircraft Pneumatic Systems Mechanic	noise	audiogram	annual
8882	Aircraft Mechanic	noise	audiogram	annual

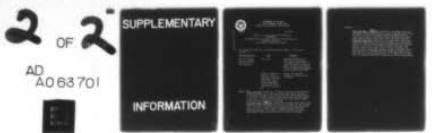
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DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010

May 1979

Change 2 to the October 1978 Printing of
APPENDIX G
Recommendations for Periodic Job-Related Examinations for
Selected Occupations
(to the Medical Surveillance Guide)

AD-A063701

The examination format for the determining factor LEAD is, in all cases, changed to:

<u>Determining Factor</u>	<u>Exam</u>	<u>Frequency</u>
Lead (if exposure exceeds .03 mg/m ³ for more than 30 days annually).	Blood lead	Semiannual (bimonthly if last blood lead exceeded 39 µg/100g; within 2 weeks of blood lead level of 50-80 µg/100g*; monthly during period worker is removed from exposure due to elevated blood lead).
	Physical examination emphasis on blood pressure, teeth, gums, hematologic, gastrointestinal, renal, CV and neurological systems, CBC, blood lead, BUN, creatinine, UA.	Annual (if blood lead exceeded 39 µg/100g in past 12 months).

- *NOTE: - Until 1 Mar 1980, workers who, on repeat blood lead testing following a blood lead level at or above 80 µg/100g, have a blood lead level at or above 80 µg/100g and are exposed to 8-hour TWA concentration of 0.1 mg Pb/m³ or greater should be removed from work involving exposure to lead until 2 consecutive blood lead levels, drawn within 1 month of each other are at or below 60 µg/100g.
- From 2 Mar 1980 - 1 Feb 1981, workers who, on repeat blood lead testing following a blood lead level at or above 70 µg/100g, have a blood lead level at or above 70 µg/100g and are exposed to an 8-hour TWA concentration of 0.05 mg Pb/m³ or greater should be removed from work involving exposure to lead until 2 consecutive blood lead levels, drawn within 1 month of each other are at or below 50 µg/100g.

APPENDIX G

- MAR*
- From 2 Mar 1981 - 1 Feb 1983, workers who, on repeat blood lead testing following a blood lead at or above 60 $\mu\text{g}/100\text{g}$, have a blood lead level at or above 60 $\mu\text{g}/100\text{g}$ should be removed from work involving exposure to lead until 2 consecutive blood lead levels, drawn within 1 month of each other, are at or below 40 $\mu\text{g}/100\text{g}$.
 - From 2 Mar 1983 onward, workers who, on repeat blood lead testing following a blood lead at or above 50 $\mu\text{g}/100\text{g}$, have a blood lead level at or above 50 $\mu\text{g}/100\text{g}$ should be removed from work involving exposure to lead until 2 consecutive blood lead levels, drawn within 1 month of each other, are at or below 40 $\mu\text{g}/100\text{g}$. See Final Standard, Occupational Exposure to Lead, 43 Federal Register (FR) 53010-53012, 14 November 1978 and Occupational Exposure to Lead; Notice of Partial Judicial Stay, 44 FR 14554-14555, 13 March 1979, for complete explanation of medical surveillance requirements.